COMPUTERS, ENVIRONMENT AND URBAN SYSTEMS

LIST OF CONTENTS
AND
AUTHOR INDEX
VOLUME 27, 2003

ELSEVIER

doi:10.1016/S0198-9715(02)00085-1

COMPUTERS, ENVIRONMENT AND URBAN SYSTEMS
VOLUME 27, LIST OF CONTENTS

Volume 27, Number 1 January 2003

CONTENTS

O. McNoleg	1	An account of the origins of conceptual models of geographic space
P. Longley	5	Referees to *Computers, Environment and Urban Systems 2001/2002*
W. Al-Sabhan **M. Mulligan** **G.A. Blackburn**	9	A real-time hydrological model for flood prediction using GIS and the WWW
Y. Sadahiro	33	Cluster detection in uncertain point distributions: a comparison of four methods
D.W.S. Wong	53	Implementing spatial segregation measures in GIS
M.J.O. Pocock **P.C.L. White** **C.J. McClean** **J.B. Searle**	71	The use of accessibility in defining sub-groups of small mammals from point sampled data
H. de Kluijver **J. Stoter**	85	Noise mapping and GIS: optimising quality and efficiency of noise effect studies

Volume 27, Number 2 March 2003

CONTENTS

P.A. Longley	103	Towards better understanding of digital differentiation
T.A. Wikle **G.A. Finchum**	107	The emerging GIS degree landscape
A. Zerger **D.I. Smith**	123	Impediments to using GIS for real-time disaster decision support
S.B. Kraines **D.R. Wallace**	143	Urban sustainability technology evaluation in a distributed object-based modeling environment
M.E. Haklay	163	Public access to environmental information: past, present and future

M. Noth **A. Borning** **P. Waddell**	181	An extensible, modular architecture for simulating urban development, transportation, and environmental impacts
A.T. Murray	205	Site placement uncertainty in location analysis

---

Volume 27, Number 3 May 2003

CONTENTS

Part Theme Issue
Emerging Technologies for Geo-Based Applications

M. Norrie	223	Guest editorial
C. Claramunt **C. Parent**	225	Modelling concepts for the representation of evolution constraints
D. Pfoser **Y. Theodoridis**	243	Generating semantics-based trajectories of moving objects
D. Malerba **F. Esposito** **A. Lanza** **F.A. Lisi** **A. Appice**	265	Empowering a GIS with inductive learning capabilities: the case of INGENS
L. Simpson **A. Yu**	283	Public access to conversion of data between geographies, with multiple look up tables derived from a postal directory
R.J. Bennett **C. Smith**	309	The spatial market of business advice and consultancy to SMEs

---

Volume 27, Number 4 July 2003

CONTENTS

Theme Issue
3D Cadastres

C. Lemmen **P. van Oosterom**	337	3D Cadastres
V. Coors	345	3D-GIS in networking environments
M. Benhamu **Y. Doytsher**	359	Toward a spatial 3D cadastre in Israel
H. Onsrud	375	Making a Cadastre law for 3D properties in Norway

P. van der Molen	383	Institutional aspects of 3D cadastres
J. Stoter **M. Salzmann**	395	Towards a 3D cadastre: where do cadastral needs and technical possibilities meet?
R. Billen **S. Zlatanova**	411	3D spatial relationships model: a useful concept for 3D cadastre?
R.O.C. Tse **C. Gold**	427	A proposed connectivity-based model for a 3-D cadastre

Volume 27, Number 5 September 2003

CONTENTS

H.J. Miller	447	What about people in geographic information science?
J.L. Mennis	455	Derivation and implementation of a semantic GIS data model informed by principles of cognition
C.M. de Almeida **M. Batty** **A.M.V. Monteiro** **G. Câmara** **B.S. Soares-Filho** **G.C. Cerqueira** **C.L. Pennachin**	481	Stochastic cellular automata modeling of urban land use dynamics: empirical development and estimation
O. Uran **R. Janssen**	511	Why are spatial decision support systems not used? Some experiences from the Netherlands
N.M. Kelly **K. Tuxen**	527	WebGIS for Monitoring "Sudden Oak Death" in coastal California
	549	Errata

Volume 27, Number 6 November 2003

CONTENTS

Part Special Issue
Urban Data Management Society

R. Laurini	551	Editorial
J.E. Stoter **H.D. Ploeger**	553	Property in 3D—registration of multiple use of space: current practice in Holland and the need for a 3D cadastre

M.J. Kevany 571 GIS in the World Trade Center attack — trial by fire

N. Odendaal 585 Information and communication technology and local governance: understanding the difference between cities in developed and emerging economies

E. Wilmersdorf 609 Geocoded information incorporated into urban online services — the approach of the City of Vienna

Regular Papers

B. Huang 623 Web-based dynamic and interactive environmental visualization

Y. Liu
S.R. Phinn 637 Modelling urban development with cellular automata incorporating fuzzy-set approaches